



(11) **EP 3 647 216 B1**

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention
of the grant of the patent:
28.08.2024 Bulletin 2024/35

(51) International Patent Classification (IPC):
B65D 1/06 (2006.01) **B65D 85/72** (2006.01)
A45F 3/18 (2006.01) **A47G 23/02** (2006.01)

(21) Application number: **18825460.1**

(52) Cooperative Patent Classification (CPC):
A47G 23/0241; A45F 3/18; A45F 5/00;
A47G 23/02; B65D 1/02; B65D 1/06; B65D 85/72;
A45F 2200/0583

(22) Date of filing: **26.06.2018**

(86) International application number:
PCT/ES2018/070454

(87) International publication number:
WO 2019/002650 (03.01.2019 Gazette 2019/01)

(54) **SYSTEM FORMED BY A CONTAINER AND A COVER FOR TRANSPORTING AND CONSUMING LIQUIDS**

SYSTEM AUS EINEM BEHÄLTER UND EINEM DECKEL ZUM TRANSPORT UND VERBRAUCH
VON FLÜSSIGKEITEN

CONTENANT POUR LE TRANSPORT ET LA CONSOMMATION DE LIQUIDES

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR

(74) Representative: **Ungria López, Javier**
Avda. Ramón y Cajal, 78
28043 Madrid (ES)

(30) Priority: **27.06.2017 ES 201730771 U**

(56) References cited:
WO-A1-2010/132152 CN-U- 203 186 684
FR-A1- 2 286 765 TW-U- M 508 262
US-A- 4 282 279 US-A1- 2004 245 207
US-A1- 2007 170 189 US-A1- 2009 039 045
US-A1- 2009 266 737 US-A1- 2010 084 362
US-A1- 2013 213 986 US-A1- 2016 249 758

(43) Date of publication of application:
06.05.2020 Bulletin 2020/19

(73) Proprietor: **Closca Design, S.L.**
46022 Valencia (ES)

• **DATABASEEPODOC Database accession no. CN**
- 201320197420-U

(72) Inventors:
• **FERRANDO GARCÍA, Carlos Nicolás**
46021 Valencia (ES)
• **MIGUEL MARTÍN, David**
46021 Valencia (ES)

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 3 647 216 B1

Description

Object of the invention

[0001] The present invention relates to a container for transporting and consuming liquids, designed to be reusable and easily refillable, in addition to the transport and handling thereof being simple such that it can be used on a daily basis. The container object of the invention is applicable to the industry for manufacturing containers for foodstuffs, specifically the industry dedicated to the manufacture of containers for liquids.

Technical problem to be solved and background of the invention

[0002] Bottles known in the prior art do not have an included securing system which allows the fastening thereof to different elements, but rather, for the securing, external objects are required, the functionality of which is limited and which involves an extra cost that the user must assume.

[0003] For example, in the bicycle sector, in order to secure a water bottle, the bicycle is equipped with a device for securing a water bottle which is screwed to the bicycle itself and which is designed especially for it, in turn the bicycle must have two housings for screwing the securing device, with a distance between the standardised screws.

[0004] Similarly, the trend of using disposable containers is becoming increasingly reduced in order to reduce the environmental impact which said disposable containers have. The smaller the container, the greater the quantity of plastic used with respect to the quantity of water it contains, that is to say, proportionally it is more inefficient because it uses more grams of plastic per litre of water so low volume containers are especially inadvisable such as bottles of less than half a litre being desirable to reduce the use thereof.

[0005] It is known document US2016249758 which discloses means of partially enclosing a bottle and providing attachment to the human hand. A single panel of material forms the main body and is arranged such that a bottle may be securely enclosed. A protruding panel integral to the main body panel accepts the insertion of multiple fingers or a portion of a human hand to allow attachment of the bottle and holder to the user without the need to continuously grip the bottle. Length adjustment of the hand attachment panel is provided in such a way that multiple hand/finger sizes and securement forces may be accommodated. The means allows elastic adjustment for multiple bottle sizes.

[0006] Document US2007170189 describes a pedestrian carryall for facilitating the carrying of a beverage container. The carryall comprises an insulated sleeve including a first fastener portion fixed to an interior surface and a second, cooperating fastener portion fixed to the exterior surface, whereby the insulating member may be

looped around itself such that the first and second fastener portions may be brought into contact to form a sleeve for adjustably and frictionally retaining a variety of sizes and shapes of the beverage container. An adjustable looped handle is fixed to the sleeve for adjustable looping around a person's hand.

[0007] It is also known US2009039045 which discloses a drinking bottle including a bottle body defining a chamber therein and having a top connecting portion and a bottom connecting portion that defines a bottom opening of the bottle body; a bottom cap coupled detachably to the bottom connecting portion of the bottle body for covering sealingly and uncovering the bottom opening of the bottle body; a hollow inner body disposed in the chamber of the bottle body, defining an inner space therein, and having a bottom connecting portion that defines a bottom opening of the inner body and that is coupled detachably to the bottom cap; and a sealing member coupled detachably to the bottom connecting portion of the inner body for covering sealingly and uncovering the bottom opening of the inner body.

[0008] In US2004245207 a container assembly and a bottom cap therefore are described. The container comprises an open end, and a bottom cap has a sealant material bonded thereto to provide a hermetic seal between the bottom cap and the open bottom of the container and a grip surface through or slightly beyond the exterior surface of the bottom cap to contact a substrate.

[0009] Another solution of the state of the art is described in TWM508262 which describes a cup bottom with anti-slippage structure. Also document US2010084362 discloses a drinking container including a bottom, a sidewall and a neck which define an interior of the container, wherein the bottom defines an opening and the bottom comprises a panel adapted to cover the opening and be removable from the opening such that with the panel removed from the opening access to the interior of the container is provided so the container has at least two openings.

[0010] US2013213986 describes a beverage container holder for use in releasably securing a beverage container to a generally vertical member, such as an umbrella tube. The holder is flexible, and may be made from multiple layers of material or from a single layer (for example leather). The holder includes a friction sheet for providing augmented frictional engagement with the vertical member. US2013213986 discloses a container according to the preamble of claim 1.

[0011] Lastly, document WO2010132152 describes an hydration bottle including a body having a top neck and a bottom neck disposed at either end of the body, the top neck, the bottom neck, and the body being formed from a continuous mold of material, the top neck and the bottom neck having threads configured to engage thread channels, a top closure, and a bottom closure, the bottom closure having a groove configured to receive a gasket, the groove and the gasket being configured to provide a seal between the bottom closure and the body.

Description of the invention

[0012] The described invention discloses a container for transporting and consuming liquids which has an included securing system very interesting to be used on multiple occasions, for example carrying it secured to the structure of a baby stroller, securing it to a bicycle frame or fastening it to the rod of an umbrella.

[0013] The container for transporting and consuming liquids object of the invention is defined in claim 1.

[0014] The first closure device of the container for transporting and consuming liquids object of the invention comprises a first closure body comprising a base and a perimeter wall, and a sealing ring, wherein the first closure body is fastened to one end of the main body of the container, with the sealing ring placed between the first closure body and the main body.

[0015] In the container for transporting and consuming liquids, the second closure device comprises a second closure body comprising a base and a perimeter wall and a sealing ring such that the second closure body is fastened to one end of the main body of the container, with the sealing ring placed between the second closure body and the main body such that the joint of the second closure body with the main body of the container is hermetic, preventing liquid from leaking from the inside of the main body.

[0016] The second closure body of the second closure device of the container for transporting and consuming liquids object of the invention comprises a perimeter annular body of plastic material which prevents the container object of the invention from being displaced over a surface whereon the container is situated.

[0017] in the container for transporting and consuming liquids object of the invention the fastening between the first closure body and the main body and the one between the second closure body and the main body is by means of threading.

[0018] in the container for transporting and consuming liquids object of the invention, the continuous band of elastic material comprises fastening means for fastening one end of the extension on the tubular body.

[0019] in the container for transporting and consuming liquids object of the invention, the main body comprises a cylindrical segment and a narrowing at one end such that the first closure device is fastened in the narrowing and the second closure device at the opposite end.

[0020] In one embodiment of the container object of the invention, the first closure body comprises a configuration in the shape of a truncated cone, having one end with dimensions similar to the cylindrical segment of the main body of the container and the other end with dimensions similar to the narrowing of the main body.

Description of the figures

[0021] in order to complete the description and with the aim of aiding a better understanding of the features

of the invention, as an integral part of the same, a number of drawings accompany said specification wherein the following has been represented in an illustrative and non-limiting manner:

Figure 1 shows an exploded view of the container for transporting and consuming liquids object of the invention.

Figure 2 shows a plan view of the container for transporting and consuming liquids object of the invention. Figure 3 shows a similar view to that of the figure with the container for transporting and consuming liquids object of the invention fastened to a tube.

[0022] The different reference numerals reflected in the figures correspond to the following elements:

- 1. : container,
- 2. : main body,
- 3. : first closure device,
- 4. : second closure device,
- 5. : cylindrical segment,
- 6. : narrowing,
- 7. : first closure body,
- 8. : base of the first closure body,
- 9. : perimeter wall of the first closure body,
- 10. : sealing ring of the first closure body,
- 11. : second closure body,
- 12. : base of the second closure body,
- 13. : perimeter wall of the second closure body,
- 14. : sealing ring of the second closure body,
- 15. : perimeter annular wall,
- 16. : continuous band,
- 17. : tubular body,
- 18. : extension, and
- 19. : fastening means.

Preferred embodiment of the invention

[0023] As indicated and as seen in the figures, the object of the invention is a container (1) for liquids comprising a main body (2) and a first closure device (3) and a second closure device (4) at opposite ends of the main body (2) and which also comprises a cover that surrounds at least the main body (2) of the container (1) and which is used to fasten the main body (2) to an external element.

[0024] The main body (2) comprises a cylindrical segment (5) and a narrowing (6) at one end, forming a neck, such that in the narrowing (6) the first closure device (3) is fastened and, at the opposite end, is fastened the second closure device (4).

[0025] The first closure device (3) comprises a first closure body (7) with a configuration in the form of a cup such that the first closure body (7) comprises a base (8) and a perimeter wall (9) such that in the preferred embodiment the base (8) is circular. Furthermore, the first closure device (3) comprises a sealing ring (10) to make the joint between the first closure body (7) and the main

body (2) of the container (1) hermetic. In the preferred embodiment of the invention, the first closure body (7) is fastened to one end of the main body (2) of the container (1) by means of threading.

[0026] The first closure body (7) has the shape of a truncated cone, with one end with dimensions similar to the cylindrical segment (5) of the main body (2) of the container (1) and another end with dimensions similar to the narrowing (6) of the main body (2). The dimensions of the first closure body (7) similar to the cylindrical segment (5) of the main body (2) make said first closure body offer a stable support area in order to be able to situate the container (1) object of the invention on the first closure body (7) and use the container (1) like a glass for which the container (1) has to be opened by the second closure device (4).

[0027] The second closure device (4) comprises a second closure body (11) with a configuration in the form of a cup, wherein the second closure body (11) comprises a base (12) and a perimeter wall (13) such that in the preferred embodiment the base (12) is circular. Furthermore, the second closure device (4) comprises a sealing ring (14) to make the joint between the second closure body (4) and the main body (2) of the container (1) hermetic. In the preferred embodiment of the invention, the second closure device (4) is fastened to one end of the main body (2) of the container (1) by means of threading. Lastly, the second closure body (4) houses a perimeter annular body (15) of plastic material.

[0028] The perimeter annular body (15) is designed to prevent the container (1), when resting on a surface through the second closure body (4), from slipping on the cited surface.

[0029] The cover comprises a continuous band (16) of elastic material which is closed at one end forming a tubular body (17) which is placed around the main body (2) of the container (1) object of the invention and the portion of the continuous band which does not form the tubular body (17) forms an extension (18). The continuous band (16) of elastic material comprises fastening means (19) to fasten one end of the extension (18) on the tubular body (17), such that when the cover is not used to secure the main body (2) of the container (1) to the external element, the extension (18) is situated surrounding the tubular body (17).

[0030] The extension (18) of the continuous band can be provided with a certain curvature with the aim of better adapting both to the manufacturing process and to the final shape folded over the main body (2). Likewise, the thickness of the continuous band (16) of elastic material in the extension (18) is smaller than the thickness of the continuous band (16) in the area forming the tubular body (17) with the aim of increasing the stretching capacity thereof. This thickness can have slight variations with the aim of compensating for or adjusting the deformation required over the entire length of the extension (18).

[0031] The fastening means (19) located on the continuous band can be implemented in multiple manners,

namely: a magnetic anchor, a self-adhering surface (such as Velcro®), snap buttons...

[0032] The invention should not be considered limited to the embodiments described in this document. Skilled persons in the art can develop other embodiments as long as they fall with the scope of the following claims

Claims

1. A container (1) for transporting and consuming liquids comprising:

- a main body (2),
- a first closure device (3) at one end of the main body (2),
- a second closure device (4) in an opposite end of the main body (2),
- a cover that surrounds the main body (2) of the container (1) wherein the cover comprises a continuous band (16) of elastic material forming a tubular body (17) placed around the main body (2) and an extension (18) that comprises a portion of the continuous band (16) different of the tubular body (17); wherein the continuous band (16) of elastic material comprises fastening means (19) for fastening one end of the extension (18) on the tubular body (17); **characterized in that** the continuous band (16) of elastic material has a variable thickness in the extension (18) to increase the stretching capacity thereof to allow to fasten the main body (2) of the container (1) surrounded by the cover, to an external element and **in that** the container comprises a second closure device (4) in an opposite end of the main body (2)..

2. The container (1) for transporting and consuming liquids according to claim 1, wherein the first closure device (3) comprises:

- a first closure body (7) which comprises a base (8) and a perimeter wall (9), and
- a sealing ring (10), wherein the first closure body (7) is fastened to one end of the main body (2) of the container (1) with the sealing ring (10) placed between the first closure body (7) and the main body (2).

3. The container (1) for transporting and consuming liquids according to any of the preceding claims, wherein the second closure device (4) comprises:

- a second closure body (11) which comprises a base (12) and a perimeter wall (13), and
- a sealing ring (14), wherein the second closure body (11) is fastened to one end of the main body (2) of the container (1) with the sealing ring

(14) placed between the second closure body (11) and the main body (2).

4. The container (1) for transporting and consuming liquids according to claim 3, wherein the second closure body (11) comprises a perimeter annular body (15) of plastic material. 5
5. The container (1) for transporting and consuming liquids according to any of claims 2 to 4, wherein the fastening between the first closure body (7) and the main body (2) and the one between the second closure body (11) and the main body (2) is by means of threading. 10
6. The container (1) for transporting and consuming liquids according to any of the preceding claims, wherein the main body (2) comprises a cylindrical segment (5) and a narrowing (6) at one end such that the first closure device (3) is fastened in the narrowing (6) and the second closure device (4) is fastened at the opposite end. 20
7. The container (1) for transporting and consuming liquids according to the preceding claim, wherein the first closure body (7) comprises a configuration in the shape of a truncated cone, with one end having dimensions similar to the cylindrical segment (5) of the main body (2) of the container (1) and another end having dimensions similar to the narrowing (6) of the main body (2). 25 30

Patentansprüche

1. Behälter (1) zum Transportieren und Konsumieren von Flüssigkeiten, umfassend: 35
 - einen Hauptkörper (2),
 - eine erste Verschlussvorrichtung (3) an einem Ende des Hauptkörpers (2),
 - eine zweite Verschlussvorrichtung (4) an einem gegenüberliegenden Ende des Hauptkörpers (2),
 - eine Abdeckung, die den Hauptkörper (2) des Behälters (1) umgibt, wobei die Abdeckung ein durchgehendes Band (16) aus elastischem Material, das einen röhrenförmigen Körper (17) bildet, der um den Hauptkörper (2) herum angeordnet ist, sowie eine Verlängerung (18) umfasst, die einen von dem röhrenförmigen Körper (17) verschiedenen Abschnitt des durchgehenden Bandes (16) umfasst; wobei das durchgehende Band (16) aus elastischem Material Befestigungseinrichtungen (19) zum Befestigen eines Endes der Verlängerung (18) an dem röhrenförmigen Körper (17) umfasst; **dadurch gekennzeichnet, dass** das durchgehende Band 40 45 50 55

(16) aus elastischem Material eine variable Dicke in der Verlängerung (18) aufweist, um die Dehnungsfähigkeit derselben zu erhöhen und Befestigen des von der Abdeckung umgebenen Hauptkörpers (2) des Behälters (1) an einem externen Element zu ermöglichen, und **dadurch, dass** der Behälter eine zweite Verschlussvorrichtung (4) an einem gegenüberliegenden Ende des Hauptkörpers (2) umfasst.

2. Behälter (1) zum Transportieren und Konsumieren von Flüssigkeiten nach Anspruch 1, wobei die erste Verschlussvorrichtung (3) umfasst:
 - einen ersten Verschlusskörper (7), der eine Basis (8) und eine Umfangswand (9) umfasst, sowie
 - einen Dichtungsring (10), wobei der erste Verschlusskörper (7) an einem Ende des Hauptkörpers (2) des Behälters (1) befestigt ist und dabei der Dichtungsring (10) zwischen dem ersten Verschlusskörper (7) und dem Hauptkörper (2) positioniert ist.
3. Behälter (1) zum Transportieren und Konsumieren von Flüssigkeiten nach einem der vorangehenden Ansprüche, wobei die zweite Verschlussvorrichtung (4) umfasst:
 - einen zweiten Verschlusskörper (11), der eine Basis (12) und eine Umfangswand (13) umfasst, sowie
 - einen Dichtungsring (14), wobei der zweite Verschlusskörper (11) an einem Ende des Hauptkörpers (2) des Behälters (1) befestigt ist und dabei der Dichtungsring (14) zwischen dem zweiten Verschlusskörper (11) und dem Hauptkörper (2) positioniert ist.
4. Behälter (1) zum Transportieren und Konsumieren von Flüssigkeiten nach Anspruch 3, wobei der zweite Verschlusskörper (11) einen ringförmigen Umfangskörper (15) aus Kunststoff umfasst.
5. Behälter (1) zum Transportieren und Konsumieren von Flüssigkeiten nach einem der Ansprüche 2 bis 4, wobei das Befestigen zwischen dem ersten Verschlusskörper (7) und dem Hauptkörper (2) sowie dasjenige zwischen dem zweiten Verschlusskörper (11) und dem Hauptkörper (2) mittels Gewinde erfolgt.
6. Behälter (1) zum Transportieren und Konsumieren von Flüssigkeiten nach einem der vorangehenden Ansprüche, wobei der Hauptkörper (2) ein zylindrisches Segment (5) und eine Verengung (6) an einem Ende umfasst, so dass die erste Verschlussvorrichtung

tion (3) in der Verengung (6) befestigt ist und die zweite Verschlussvorrichtung (4) an dem gegenüberliegenden Ende befestigt ist.

7. Behälter (1) zum Transportieren und Konsumieren von Flüssigkeiten nach dem vorangehenden Anspruch, wobei der erste Verschlusskörper (7) eine kegelstumpfförmige Gestalt hat, und dabei ein Ende Abmessungen hat, die dem zylindrischen Segment (5) des Hauptkörpers (2) des Behälters (1) gleichen und ein anderes Ende Abmessungen hat, die der Verengung (6) des Hauptkörpers (2) gleichen.

Revendications

1. Contenant (1) pour le transport et la consommation de liquides, comprenant :

- un corps principal (2),
- un premier dispositif de fermeture (3) au niveau d'une extrémité du corps principal (2),
- un deuxième dispositif de fermeture (4) dans une extrémité opposée du corps principal (2),
- un couvercle qui entoure le corps principal (2) du contenant (1), dans lequel le couvercle comprend une bande continue (16) en matériau élastique formant un corps tubulaire (17) placé autour du corps principal (2) et une extension (18) qui comprend une partie de la bande continue (16) différente du corps tubulaire (17) ; dans lequel la bande continue (16) de matériau élastique comprend des moyens de fixation (19) pour fixer une extrémité de l'extension (18) sur le corps tubulaire (17) ;

caractérisé en ce que la bande continue (16) de matériau élastique a une épaisseur variable dans l'extension (18) pour accroître sa capacité d'étirement afin de permettre la fixation du corps principal (2) du contenant (1) entouré par le couvercle, à un élément externe et **en ce que** le contenant comprend un deuxième dispositif de fermeture (4) dans une extrémité opposée du corps principal (2).

2. Contenant (1) pour le transport et la consommation de liquides selon la revendication 1, dans lequel le premier dispositif de fermeture (3) comprend :

- un premier corps de fermeture (7) qui comprend une base (8) et une paroi périmétrale (9), et
- une bague d'étanchéité (10), dans lequel le premier corps de fermeture (7) est fixé à une extrémité du corps principal (2) du contenant (1) avec la bague d'étanchéité (10) placée entre le premier corps de fermeture (7) et le corps principal (2).

3. Contenant (1) pour le transport et la consommation de liquides selon l'une quelconque des revendications précédentes, dans lequel le deuxième dispositif de fermeture (4) comprend :

- un deuxième corps de fermeture (11) qui comprend une base (12) et une paroi périmétrale (13), et
- une bague d'étanchéité (14), dans lequel le deuxième corps de fermeture (11) est fixé à une extrémité du corps principal (2) du contenant (1) avec la bague d'étanchéité (14) placée entre le deuxième corps de fermeture (11) et le corps principal (2).

4. Contenant (1) pour le transport et la consommation de liquides selon la revendication 3, dans lequel le deuxième corps de fermeture (11) comprend un corps annulaire périmétral (15) de matière plastique.

5. Contenant (1) pour le transport et la consommation de liquides selon l'une quelconque des revendications 2 à 4, dans lequel la fixation entre le premier corps de fermeture (7) et le corps principal (2) et l'un entre le deuxième corps de fermeture (11) et le corps principal (2) se fait au moyen de filetage.

6. Contenant (1) pour le transport et la consommation de liquides selon l'une quelconque des revendications précédentes, dans lequel le corps principal (2) comprend un segment cylindrique (5) et un rétrécissement (6) au niveau d'une extrémité, de sorte que le premier dispositif de fermeture (3) est fixé dans le rétrécissement (6) et le deuxième dispositif de fermeture (4) est fixé au niveau de l'extrémité opposée.

7. Contenant (1) pour le transport et la consommation de liquides selon la revendication précédente, dans lequel le premier corps de fermeture (7) comprend une configuration de forme tronconique, avec une extrémité qui a des dimensions similaires au segment cylindrique (5) du corps principal (2) du contenant (1) et une autre extrémité qui a des dimensions similaires au rétrécissement (6) du corps principal (2).

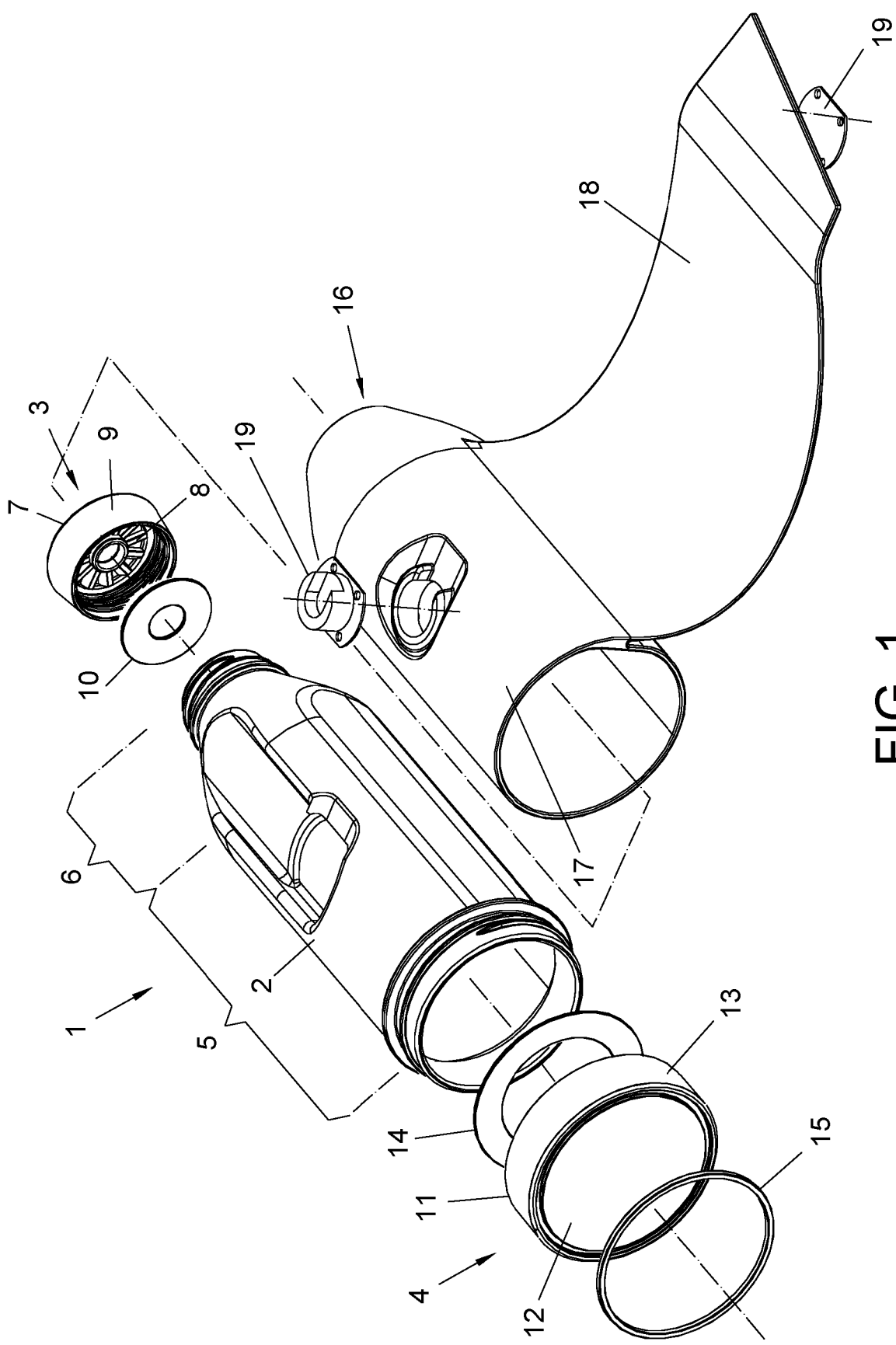


FIG. 1

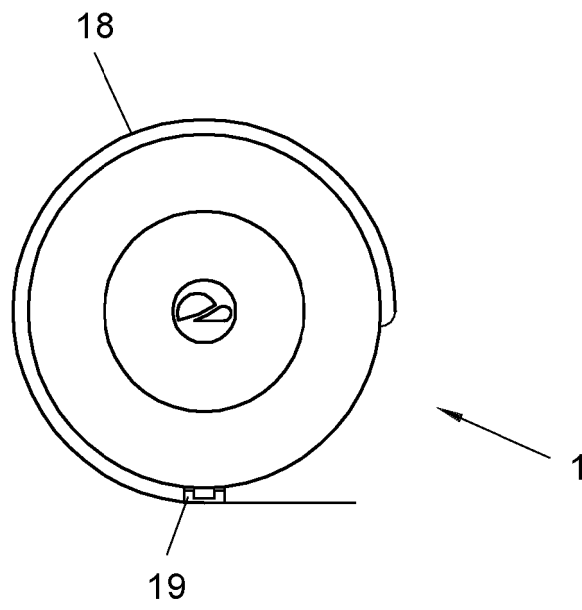


FIG. 2

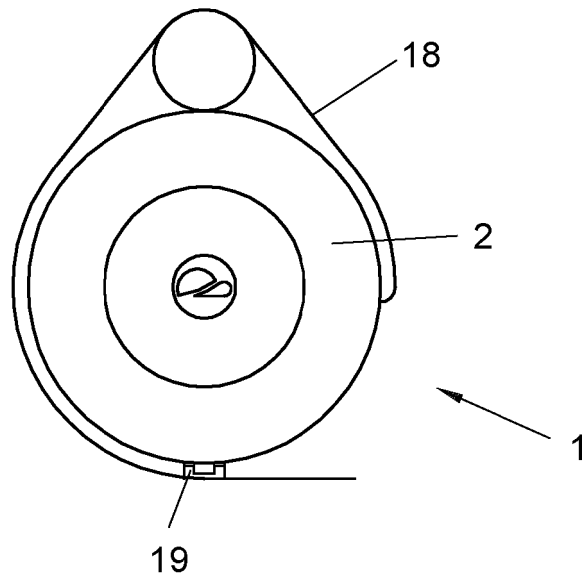


FIG. 3

REFERENCES CITED IN THE DESCRIPTION

This list of references cited by the applicant is for the reader's convenience only. It does not form part of the European patent document. Even though great care has been taken in compiling the references, errors or omissions cannot be excluded and the EPO disclaims all liability in this regard.

Patent documents cited in the description

- US 2016249758 A [0005]
- US 2007170189 A [0006]
- US 2009039045 A [0007]
- US 2004245207 A [0008]
- US 2010084362 A [0009]
- US 2013213986 A [0010]
- WO 2010132152 A [0011]